

FORM PTO-1449  
(REV. 7-80)

JUN 14 2001

JUN 12 2001

DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

740073.404C1

APPLICATION NO.

09/760,213

APPLICANTS

Magnus Malmqvist et al.

FILING DATE

January 12, 2001

GROUP ART UNIT

1743

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

| *EXAMINER<br>INITIAL |    | DOCUMENT NUMBER | DATE     | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|----------------------|----|-----------------|----------|------------------|-------|----------|-------------------------------|
| 810                  | AA | 4,022,575       | 05/10/77 | Hansen et al.    | 422   | 81       |                               |
| 810                  | AB | 4,056,324       | 11/01/77 | Gohde            | 356   | 246      |                               |
| 810                  | AC | 4,997,278       | 03/05/91 | Finlan et al.    | 356   | 128      |                               |
| 810                  | AD | 5,313,264       | 05/17/94 | Ivarsson et al.  | 356   | 73       |                               |
| 810                  | AE | 5,773,298       | 06/30/98 | Lynggaard et al. | 436   | 52       |                               |

## FOREIGN PATENT DOCUMENTS

|     |    | DOCUMENT<br>NUMBER | DATE     | COUNTRY | TRANSLATION |    |
|-----|----|--------------------|----------|---------|-------------|----|
|     |    |                    |          |         | YES         | NO |
| 810 | AF | EP 286 195 A2      | 10/12/88 | EPO     |             |    |
|     | AG | EP 469 377 A1      | 02/05/92 | EPO     |             |    |
|     | AH | WO 90/05305        | 05/17/90 | WIPO    |             |    |
|     | AI | WO 93/24231        | 12/09/93 | WIPO    |             |    |
|     | AJ | WO 94/27137        | 11/24/94 | WIPO    |             |    |
|     | AK | WO 96/10178        | 04/04/96 | WIPO    |             |    |
|     | AL | WO 96/35940        | 11/14/96 | WIPO    |             |    |
| 810 | AM | WO 97/01087        | 01/09/97 | WIPO    |             |    |

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

|     |    |   |
|-----|----|---|
| 810 | AN | Blankenstein and Larsen, "Modular Concept of a Laboratory on a Chip for Chemical and Biochemical Analysis," Biosensors & Bioelectronics 13(3-4):427-438, 1998.                                    |
| 810 | AO | Blankenstein et al., "Flow Switch for Analyte Injection and Cell/particle Sorting," Analytical Methods & Instrumentations, Special Issue .mu.TAS, pp. 82-84, 1996.                                |
| 810 | AP | Davies and Skelton, "CRC Series in Chemistry and Physics of Surfaces and Interfaces," CRC Press, Boca Raton, 1996, Chapter 4, "Flow Cell Design Considerations For SPR Measurements," pp. 89-103. |

EXAMINER

Cross, L.

DATE CONSIDERED

11/03

\* EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant(s).

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|----------------------|-----------------|------|------|-------|----------|-------------------------------|
| BA                   |                 |      |      |       |          |                               |

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|                    |      |         | YES NO      |

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|     |    |  |
|-----|----|--|
| 81C | BB | de Mello, Andrew J., "CRC Series in Chemistry and Physics of Surfaces and Interfaces," CRC Press, Boca Raton, 1996, Chapter 1, "Surface Analytical Techniques for Probing Biomaterial Processes," pp. 1-41.  |
|     | BC | Duveneck et al., "Planar Waveguide Sensing Systems: A Combination of Highly Sensitive Transducers with Smart Fluidic Systems to a Tru .mu.TAS," Analytical Methods & Instrumentations, Special Issue .mu.TAS, pp. 158-162, 1996.                   |
|     | BD | Ekins, "Multi-analyte immunoassay," Journal of Pharmaceutical & Biomedical Analysis 7(2):155-168, 1989.  |
|     | BE | Gooding et al., "Novel "Flow Injection" Channel Flow Cell for the Investigation of Processes at Solid/Liquid Interfaces. 2. Experiment," J. Phys. Chem. B 101:182-188, 1997.   |
|     | BF | Hlady et al., "Spatially Resolved Detection of Antibody-Antigen Reaction on Solid/Liquid Interface using Total Internal Reflection Excited Antigen Fluorescence and Charge-Coupled Device Detection," Biosensors & Bioelectronics 5:291-301, 1990. |
|     | BG | Hlady, "Spatially Resolved Adsorption Kinetics of Immunoglobulin G onto the Wettability Gradient Surface," Applied Spectroscopy 45(2):246-252, 1991.   |
|     | BH | Larsen et al., "A Novel Design for Chemical and Biochemical Liquid Analysis System," Analytical Methods & Instrumentation, Special Issue .mu.TAS, pp. 113-115, 1996.   |
|     | BI | Larsen et al., "Microchip Based Coulter Particle Counter," Microstructure Bulletin No. 3, p. 6, November 1997.   |
|     | BJ | Microfabricated Fused Silica Flow Chambers for Flow Cytometry, <a href="http://www-mtl.mit.edu/MTL/Report94/MEMS/fused.html">http://www-mtl.mit.edu/MTL/Report94/MEMS/fused.html</a> . [Accessed June 4, 1998].                                    |
|     | BK | The Zeneca/SmithKline Beecham Centre for Analytical Science, <a href="http://www.achem.ic.ac.uk/">http://www.achem.ic.ac.uk/</a> . [Accessed June 4, 1998].  |
| 8C  | BL | Weigl and Yager, "Silicon-Microfabricated Diffusion-Based Optical Chemical Sensor," at 3.sup.rd European Conference on Optical Chemical Sensors and Biosensors, Mar. 31-Apr. 3, 1996, Zurich, Switzerland, p. 236.                                 |

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Cross, LaTaya

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|----------------------|----|-----------------|----------|------------------|-------|----------|-------------------------------|
| SC                   | CA | 6,200,814 B1    | 03/13/01 | Malmqvist et al. | 436   | 52       |                               |
|                      | CB |                 |          |                  |       |          |                               |
|                      | CC |                 |          |                  |       |          |                               |
|                      | CD |                 |          |                  |       |          |                               |
|                      | CE |                 |          |                  |       |          |                               |
|                      | CF |                 |          |                  |       |          |                               |
|                      | CG |                 |          |                  |       |          |                               |
|                      | CH |                 |          |                  |       |          |                               |
|                      | CI |                 |          |                  |       |          |                               |
|                      | CJ |                 |          |                  |       |          |                               |

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|  |    |                    |      |         | YES         | NO |
|  | CK |                    |      |         |             |    |
|  | CL |                    |      |         |             |    |
|  | CM |                    |      |         |             |    |
|  | CN |                    |      |         |             |    |
|  | CO |                    |      |         |             |    |

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